

Masonite purchases eSight[®] aM&T product suite for large manufacturing facility in Ireland



Masonite is a unique integrated building products company, which for over 75 years, has focused on leading edge product innovation. With more than 70 facilities and in excess of 12,000 employees worldwide, Masonite retails its products – doors, components, industrial product and entry systems – to a wide variety of customers in over 50 countries.

■ Background

Masonite has a state of the art production facility in Southern Ireland. Production of door facings from this plant are exclusively dedicated to Europe, which guarantees volume supply to satisfy an increasing demand. Masonite have local representatives in every major European market.



■ The Requirement

The requirement was for the supply of both hardware and software for Masonite's manufacturing plant in Ireland.

Masonite needed the ability to monitor energy data from various points throughout the plant. Subsequently there was a requirement for the supply and installation of approximately 80 data loggers.

Masonite also required an application to collect, store and process the energy information. They needed to be able to:

- Transfer data from their manufacturing production system to a central location for analysis.
- Analyse their energy consumption against the production data to calculate performance efficiencies.
- Access the information from different locations throughout the plant.
- Process data for the EU Emissions Trading Scheme.

■ The Solution

Hawkesbury and Enercom worked together to supply the complete solution for Masonite.

Around 80 data loggers were installed at various points throughout the plant. This provided Masonite with a comprehensive set of energy data.

eSight was configured to import production data from Masonite's production control system on a daily basis.

- Data loggers installed throughout the site
- eSight configured to automatically import energy data from the loggers
- Production data is imported from the production control system

Masonite were then able to analyse utility data against production data to determine the efficiency at various points in the manufacturing process.

"eSight has reduced our time spent collecting and processing energy data and is expected to assist in reduction of energy costs from 2005."

Jonathan Pugsley

Energy Manager, Masonite Ireland

■ Technology

Enercom supplied Masonite with their Multilog AMR units. The Multilog units receive meter pulses from any type of meter including gas, water, electric, oil, heat etc. They convert the pulse count into a kWh energy usage figure and store the time-stamped values.

Multilog units store and continuously update the most recent sixty days worth of ½ hourly meter data. The units are programmed to download this data when requested by the host PC.

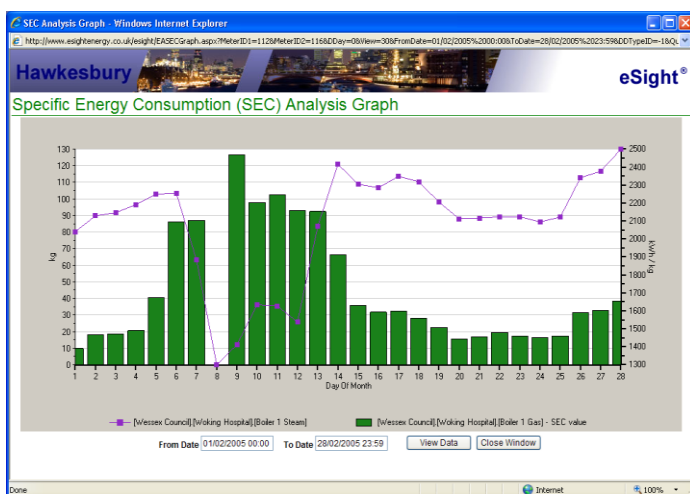
The meter read data is downloaded directly from Enercom's Multilog units and imported automatically into eSight for analysis.

The Multilog is a suitable and economic solution whenever frequent, regular and reliable meter data is required for monitoring energy or water use.



Hawkesbury partner with Enercom for the supply of both logging equipment such as the Multilog, and also the

specification and installation of electricity, gas and water meters. Purchasing a solution in this way ensures that the end to end solution works together.



■ Performance Analysis

Sub meters were installed at strategic points within the manufacturing process to collect utility data.

Production data is extracted from Masonite's manufacturing control system and transferred to eSight.

eSight provides a number of ways of analysing energy alongside production data including Specific Energy Consumption, Regression Analysis and CUSUM analysis.

These graph types can all be scheduled for distribution by email to production line managers.

■ Exception Reporting

The eSight Exception Reporting Module was deployed to distribute energy alarms by email. Alarms of many different types can be configured for any real or virtual meter. Through a configurable set of alarm distribution rules, alarms may be forwarded by email or SMS text message.

■ Emissions Trading Scheme

The Masonite plant in Ireland falls within the EU Emissions Trading Scheme. The eSight Emissions Trading Module was deployed to calculate site emissions and assist in the trading of allowances.

The emissions report also assists with the presentation of data used during verification.

■ About Hawkesbury

Hawkesbury specialises in the supply of **aM&T** solutions. Built upon the very latest Microsoft technology, eSight is our fully browser based energy monitoring and targeting suite.

eSight may be used in conjunction with other products from Hawkesbury for the collection and transfer of data between sites.

Please contact Hawkesbury if you would like to receive further information about eSight, data collection, data logging, meters, manual meter reading solutions, or pricing and licensing options for your organisation.

eSight is a registered trade mark of Hawkesbury Consulting Limited.